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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688,834	10/17/2000	Toshio Koga	Q60831	1858

7590

10/17/2005

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER

MEINECKE DIAZ, SUSANNA M

ART UNIT

PAPER NUMBER

3623

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/688,834

Applicant(s)

KOGA, TOSHIO

Examiner

Susanna M. Diaz

Art Unit

3623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This non-final Office action is responsive to Applicant's response filed September 9, 2005.

Claims 1-7 are presented for examination.

2. A new rejection is applied below in response to Applicant's invocation of 35 U.S.C. § 103(c).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Fuyama (U.S. Patent No. 6,259,376).

Fuyama discloses a vehicle-onboard electronic toll collection apparatus, comprising:

[Claim 1] vehicle speed detection means for detecting a speed of a motor vehicle which passes through a toll gate station equipped with an electronic toll collection system (Fig. 2; abstract; col. 4, line 25 through 5, line 54);

communication means for exchanging electronic toll collection information for settlement of toll charge/payment transaction with said toll gate station upon passing through said toll gate station (col. 5, line 55 through col. 6., line 7);

measuring means for measuring reception field intensity of the received electronic toll collection information within a communication coverage area (Fig. 2; abstract; col. 4, line 25 through 5, line 54); and

decision means for making decision on the basis of said detected vehicle speed and said measured reception field intensity as to a location within said communication coverage area where electronic toll collection information communication can be started while sustaining favorable reception field intensity at said detected vehicle speed, to thereby allow said communication means to perform communication processing on the basis of result of said decision (Fig. 2; abstract; col. 4, line 25 through 5, line 54);

[Claim 2] wherein said detection means is so designed as to sample distance data which ensure more favorable reception field intensity than the reception field intensity at an entrance location of said communication coverage area on the basis of speed at which said motor vehicle enters said communication coverage area, to thereby generate distance-versus-reception field intensity data (Fig. 2; abstract; col. 4, line 25 through 5, line 54);

[Claim 3] wherein said decision means is so designed as to determine said distance data which can ensure favorable reception field intensity through statistical processing on the basis of speed which said motor vehicle enters said communication coverage area (Fig. 2; abstract; col. 4, line 25 through 5, line 54);

Art Unit: 3623

[Claim 4] wherein said detection means is so designed as to convert the distance data to time data based on area entering speed (Fig. 2; abstract; col. 4, line 25 through 5, line 54);

[Claim 5] wherein said decision means is so designed as to convert the distance data to time data based on area entering speed (Fig. 2; abstract; col. 4, line 25 through 5, line 54).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuyama (U.S. Patent No. 6,259,376), as applied to claim 1 above, in view of Fuyama '267 (U.S. Patent No. 6,834,267):

Fuyama does not expressly teach the inclusion of image display means for displaying the electronic toll collection information exchanged through said communication means as an image while stopping display of the electronic toll collection information in dependence on a vehicle speed signal outputted from said vehicle speed detection means (claim 6) or voice output means for generating a synthesized voice message signal for prompting change of speed of the motor vehicle in dependence on a vehicle speed signal outputted from said vehicle speed detecting

Art Unit: 3623

means, for thereby outputting said message in voice (claim 7). However, Fuyama '267 discloses a toll system in which a driver is prevented from entering toll information if the driver's speed is above an acceptable threshold (e.g., if the vehicle is not immobile). If the vehicle is not immobile, "CPU 11 displays a message to the effect that a key operation is prohibited during running of vehicle and also provides a voice message to the same effect in step 153...In this way, the user is prohibited from operating the keyboard portion 16, this ensures the safety of vehicle driving." (Col. 5, lines 3-9) In other words, the display outputs a warning instead of enabling the toll data input based on the driver's speed. Additionally, speed warnings may be provided using a voice message. Both Fuyama and Fuyama '267 are directed toward toll systems that measure vehicle speed; therefore, the Examiner submits that it would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to modify Fuyama to include image display means for displaying the electronic toll collection information exchanged through said communication means as an image while stopping display of the electronic toll collection information in dependence on a vehicle speed signal outputted from said vehicle speed detection means (claim 6) or voice output means for generating a synthesized voice message signal for prompting change of speed of the motor vehicle in dependence on a vehicle speed signal outputted from said vehicle speed detecting means, for thereby outputting said message in voice (claim 7) in order to help ensure the safety of vehicle driving, as suggested in col. 5, lines 3-9 of Fuyama '267.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Terashima et al. (U.S. Patent No. 6,657,554) – Discloses a toll system that measures the speed of an approaching vehicle and sends warnings to speeders.

Hoshino et al. (U.S. Patent No. 6,073,062) -- Discloses a system for monitoring vehicle conditions, such as conformance to a posted speed limit in toll areas.


8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susanna M. Diaz whose telephone number is (571) 272-6733. The examiner can normally be reached on Monday-Friday, 10 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/688,834
Art Unit: 3623

Page 7

A handwritten signature in black ink, reading "Susanna M. Diaz". The signature is written in a cursive style with a large, stylized "S" and "D".

Susanna M. Diaz
Primary Examiner
Art Unit 3623

October 13, 2005